11		-1			
"6424492" "555760" "560430" "680297"	34	3	("5490324" "5796170" "5906042").PN.	USPAT	2004/06/12 17:52
"5751554" "5767575" "5946552", PN. 174250-288.ccls. and (BGA or (ball adj grid adj array))	<i>-</i> 35	11	("4600970" "5061989" "5220490" "5255156"	USPAT	2004/06/12 17:56
174/250-268.ccls. and (BGA or (ball adj grid adj array) 204/06/12 18:00			"5424492" "5557505" "5604330" "5682297"		
37 20 (signal near ball) and (ground near ball) SPO. JPO. JPO. JPO. JPO. JPO. JPO. JPO. J			"5751554" "5767575" "5946552").PN.		
37 20 (signal near ball) and (ground near ball) SPAT; EPC; JPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO	36	556	174/250-268.ccls. and (BGA or (ball adj grid adj	USPAT:	2004/06/12 18:00
Second S					
37 20 (signal near ball) and (ground near ball) USPAT; EPO; JPO; DERWENT; USPAT; USPAT					
20					
Section Sect	37	20	(signal near hall) and (ground near hall)		2004/06/42 49:44
38	0.		(Signal flear ball) and (ground flear ball)		2004/06/12 16:11
38					
166					
166 (signal near4 ball) and (ground near4 ball) USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USOCR USP	20	_	/860057008 L 8600 4 4708 L 860000078 L 86 470 7508 PA		
40 166 (signal near4 ball) and (ground near4 ball)		1	(0225702 0384476" "0388207" "6479758").PN.	L.	
40 166 (signal near4 ball) and (ground near4 ball) USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT (5225702").PN. 41 5 ("5640048" "5714801" "6057596" "6064113" USPAT (USPAT) USOCR USPAT (USPAT) USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT; ESOSIONE USPAT;	39	100	(signal near4 ball) and (ground near4 ball)		2004/06/12 18:11
166 (signal near4 ball) and (ground near4 ball) USPAT; EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 18:50 C*5640048" "5714801" "6057596" "6064113" USPAT 2004/06/12 18:14 USPAT USPAT 2004/06/12 18:50 USPAT USPAT 2004/06/12 18:50 USPAT USPAT 2004/06/12 18:50 USPAT USPA					
166					
41 5 ("5640048" "5714801" "6057596" "6064113" USPAT 2004/06/12 18:54 2004/06/12 18:55 2004/06/			•	USOCR	
41 5 ("5640048" "5714801" "6057596" "6064113" USPAT 2004/06/12 18:50	40	166	(signal near4 ball) and (ground near4 ball)	USPAT;	2004/06/12 18:50
41 5 ("5640048" "5714801" "6057596" "6064113" USPAT 2004/06/12 18:50				EPO; JPO;	
41 5 ("5640048" "5714801" "6057596" "6064113" USOCR USPAT 2004/06/12 18:14 42 3629 25702").PN. 257/\$.ccls. and (BGA or (ball adj grid adj array))					
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42 3629 "6225702").PN. 257/\$.ccls. and (BGA or (ball adj grid adj array)) 198	41	5	("5640048" "5714801" "6057596" "6064113"	1	2004/06/12 18:14
42 3629 257/\$.ccls. and (BGA or (ball adj grid adj array)) USPAT; EPO; JPO; DERWENT; USOCR USPAT USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USPAT USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USPAT; EPO; JPO; JPO; DERWENT; USPAT; EPO; JPO; JPO; DERWENT;					2004/00/12 10:14
43 198 layout near4 ball EPC; JPC; DERWENT; USCCR USPAT; EPC; JPC; DERWENT; USCCR USPAT USCR USPAT 2004/06/12 18:53 (4 "4379307" "5495125" "5672911" "5932927" "6262446" "6346743" "6351369" "6414835").PN. USPAT 2004/06/12 18:55 (414835").PN. ("5177670" "6191479" "5890925" "6034864").PN. USPAT 2004/06/12 19:05 ("5714801" "5714501" "5715507" "5914552" "4715060831" USPAT 2004/06/12 19:16	42	3629		LISPAT.	2004/06/12 18:50
43 198 layout near4 ball DERWENT; USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT USPAT; EPO; JPO; DERWENT; USOCR USPAT USPAT; EPO; JPO; DERWENT; USOCR USPAT USPAT 2004/06/12 18:53 EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 18:55 EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 18:55 EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 18:55 EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 19:05 ERWENT; USOCR 2004/06/12 19:05 ERWENT					2004/00/12 10:50
43				DEDIMENT.	
198 layout near4 ball					
44 761 (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground 45 27 (layout near4 ball) and signal and ground 46 4 ("6225702" "6384476" "6388207" "6479758").PN. 47 286 ((257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground USPAT USPA	43	108	layout pear4 hall		0004/00/40 40 00
44 761 (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground and pitch Signal and ground Signal Si	40	130	layout flear 4 ball		2004/06/12 19:22
44 761 (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground 45 27 (layout near4 ball) and signal and ground 46 4 ("6225702" "6384476" "6388207" "6479758").PN. (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground 46 4 ("6225702" "6384476" "6388207" "6479758").PN. (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground) and pitch 48 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6088297" "6448575" "6485911" "2003/0015804").PN. ("4729061" "5874770" "5939782" "6262446" "5034644").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5174801" "5714245" "5719439" "5719449" "5714801" "5717245" "5719439" "5719449" "5714801" "5717245" "5719439" "5719449" "5760070" "5955780").PN. ("3894860" "4792532" "4860087" "5066831" "5153507" "5239448" "5286488" "5286156" "5153507" "5331049" "53131049" "5510758" "55045322" "55242411" "51331049" "5510758" "5523622" "5545923" USPAT (2004/06/12 19:16 "51331049" "5510758" "5523622" "5545923" US					
44 761 (257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground Signal and ground Signal and ground USPAT; EPO; JPO; DERWENT; USOCR USPAT 2004/06/12 18:53 epo; JPO; DERWENT; USOCR USPAT 2004/06/12 18:53 epo; JPO; DERWENT; USOCR USPAT 2004/06/12 18:53 epo; JPO; DERWENT; USOCR USPAT 2004/06/12 18:55 epo; JPO; DERWENT; USPAT 2004/06/12 19:05 epo; JPO; DERWENT; USPAT 2004/06/12 19:05 epo; JPO; DERWENT; USPAT 2004/06/12 19:05 epo; JPO; DERWENT; USPAT 2004/06/12 19:14 epo; JPO; DERWENT; USPAT 2004/06/12 19:14 epo; JPO; DERWENT; USPAT 2004/06/12 19:14 epo; JPO; DERWENT; USPAT 2004/06/12 19:16 epo; JPO; JPO				•	
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45 27 (layout near4 ball) and signal and ground USPAT; EPC; JPC; DERWENT; USOCR USPAT; EPC; JPO; DERWENT; USOCR USPAT; EPC; JPO; DERWENT; USOCR USPAT USPAT USPAT; EPC; JPO; DERWENT; USOCR USPAT USPAT; EPC; JPO; DERWENT; USOCR USPAT USPAT; EPC; JPO; DERWENT; USOCR USPAT USPAT USPAT USPAT USPAT USPAT; EPC; JPO; DERWENT; USOCR USPAT USPAT USPAT USPAT USPAT USPAT; EPC; JPO; DERWENT; USOCR USPAT	44	/61			2004/06/12 18:51
45 27 (layout near4 ball) and signal and ground USOCR USPAT; EPO; JPO; DERWENT; USOCR USPAT USPAT 286 ((257/\$\frac{1}{2}\) (257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) (257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) (257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\) ((257/\$\frac{1}{2}\			signal and ground		
45 27 (layout near4 ball) and signal and ground USPAT; EPO; JPO; DERWENT; USOCR USPAT USPA				•	
46 4 ("6225702" "6384476" "6388207" "6479758").PN. 47 286 ((257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground) and pitch 48 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. 49 7 ("4729061" "5874770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "55400408" "5502278" "5545923" "5714801" "5717245" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" "57424492" "5751554" "5767575" "5946552").PN. 53 19 ("3894860" "4792532" "4860087" "5066831" "513307" "5239448" "5286488" "5242441" "5440040" "5510758" "552555522" "5545923"			<u></u>		
46 4 ("6225702" "6384476" "6388207" "6479758").PN. 47 286 ((257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground) and pitch 48 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. 49 7 ("4729061" "5874770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "5490040" "5502278" "5545923" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" "5424492" "55557505" "5604330" "5682297" "5715554" "5767575" "5946552").PN. 53 19 ("3894860" "4792532" "4860087" "50668831" "513507" "5239448" "5239448" "52868151" "513507" "5339148" "52586481" "54224441" "5440040" "5510758" "5523622" "5545923"	45	27	(layout near4 ball) and signal and ground		2004/06/12 18:53
4 ("6225702" "6384476" "6388207" "6479758").PN. ((257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground) and pitch 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. ("4729061" "5874770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. ("5177670" "6191479" "5880925" "60034864").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5483099" "5490040" "5502278" "55545923" "5714801" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. ("4600970" "5505789").PN. ("4600970" "55057595" "5604330" "5682297" "5751554" "5765757" "5946552").PN. ("3894860" "4792532" "4860087" "5086831" "513507" "5339448" "5238648" "5281151" "5341049" "5381307" "53991917" "52424411 "5490040" "5510758" "5523622" "5545923"				EPO; JPO;	
46 4 ("6225702" "6384476" "6388207" "6479758").PN. (1257/\$.ccls. and (BGA or (ball adj grid adj array))) and signal and ground) and pitch 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. ("4729061" "58747770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5177670" "6191479" "5880925" "6034864").PN. ("5483099" "5490040" "5502278" "5545923" "5714801" "5771245" "5719439" "5719449" "5796170" "595789").PN. ("4600970" "5061989" "5220490" "5255156" "574801" "5767575" "5946552").PN. ("3894860" "4792532" "4860087" "5066881" "5153507" "5339448" "5239448" "5286488" "5281151" "5341049" "5381307" "5391917" "5422441" "5420440" "55490040" "5510758" "5523622" "5545923"				DERWENT;	
47				USOCR	
47		4	("6225702" "6384476" "6388207" "6479758").PN.	USPAT	2004/06/12 18:53
signal and ground) and pitch 8 ("4379307" "5495125" "5672911" "5932927" USOCR	47	286	((257/\$.ccls. and (BGA or (ball adj grid adj array))) and	USPAT:	
48 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. 49 7 ("4729061" "58747770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "5490040" "5502278" "5545923" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" "5424492" "55751554" "5767575" "5946552").PN. 53 19 ("3894860" "4792532" "4860087" "5066831" "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"					
48 8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. 49 7 ("4729061" "5874770" "5939782" "6262446" USPAT 2004/06/12 19:05 "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "5490040" "5502278" "5545923" USPAT 2004/06/12 19:06 " "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" "57424492" "5751554" "5767575" "5604330" "5682297" "5751554" "5767575" "5946552").PN. 53 19 ("3894860" "4792532" "4860087" "5066831" USPAT 2004/06/12 19:16 "5341049" "5381307" "5391917" "54224441" "5490040" "5510758" "5523622" "5545923"					
8 ("4379307" "5495125" "5672911" "5932927" "6008534" "6084297" "6448575" "6495911" "2003/0015804").PN. 49 7 ("4729061" "5874770" "5939782" "6262446" USPAT 2004/06/12 19:05 "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "5490040" "55502278" "5545923" USPAT 2004/06/12 19:13 "5554881" "5640048" "5641988" "5691568" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" USPAT 2004/06/12 19:14 "5424492" "5557505" "5604330" "5682297" "5751554" "57657575" "5946552").PN. 53 19 ("3894860" "4792532" "4860087" "5066831" USPAT 2004/06/12 19:16 "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"					
"6008534" "6084297" "6448575" "6495911" "2003/0015804").PN.	48	8	("4379307" "5495125" "5672911" "5932927"		2004/06/12 18:55
"2003/0015804").PN. "5939782" "6262446" USPAT 2004/06/12 19:05 "6346743" "6351369" "6414835").PN. USPAT 2004/06/12 19:05 2004/06/12 19:06 2004/06/12 19:06 2004/06/12 19:06 2004/06/12 19:06 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:13 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:14 2004/06/12 19:16 200				00.71	2004/00/12 10:55
49 7 ("4729061" "5874770" "5939782" "6262446" "6346743" "6351369" "6414835").PN. 50 4 ("5177670" "6191479" "5880925" "6034864").PN. 51 14 ("5483099" "5490040" "5502278" "5545923" USPAT 2004/06/12 19:06 2004/06/12 19:13 "5554881" "5640048" "5641988" "5691568" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 52 11 ("4600970" "5061989" "5220490" "5255156" USPAT 2004/06/12 19:14 "5424492" "5564552").PN. 53 19 ("3894860" "4792532" "4860087" "5066831" USPAT 2004/06/12 19:16 "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"					
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50			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	USPAI	2004/00/12 19:05
51	50		("5177670" "6101470" "E00000E" "6004064"\ 04	HEDAT	0004/00/40 40 55
"5554881" "5640048" "5641988" "5691568" "5714801" "5717245" "5719439" "5719449" "5796170" "5955789").PN. 11 ("4600970" "5061989" "5220490" "5255156" "5424492" "5557505" "5604330" "5682297" "5751554" "5767575" "5946552").PN. 19 ("3894860" "4792532" "4860087" "5066831" "5153507" "5239448" "5258648" "5281151" "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"		1	("5483090" "5490040" "5502270" "554502"		
52 11 ("4600970" "55717245" "5719439" "5719449" "5796170" "5955789").PN. 11 ("4600970" "5061989" "5220490" "5255156" "5424492" "5557505" "5604330" "5682297" "5751554" "5767575" "5946552").PN. 19 ("3894860" "4792532" "4860087" "5066831" "5153507" "5239448" "5258648" "5281151" "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"	31	14	(J=0JU33 J=3UU4U J5UZZ78" "55459Z3"	USPAT	2004/06/12 19:13
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52			5714001 5717245" "5719439" "5719449" "5706470"		
"5424492" "5557505" "5604330" "5682297" "5751554" "5767575" "5946552").PN. 19 ("3894860" "4792532" "4860087" "5066831" USPAT 2004/06/12 19:16 "5153507" "5239448" "5258648" "5281151" "5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"	52 53	ا مد		l	
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53		j l			
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"5341049" "5381307" "5391917" "5422441" "5490040" "5510758" "5523622" "5545923"			"5153507" "5239448" "5258648" "5281151"		
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"5672911" "5686764" "5703402").PN.			"5490040" "5510758" "5523622" "5545923"		
			"5672911" "5686764" "5703402").PN.		

54	1677	layout same ball	USPAT;	2004/06/12 19:22
ا ن			EPO; JPO; DERWENT:	
			USOCR	
55	573	layout same balls	USPAT;	2004/06/12 19:22
			EPO; JPO;	
			DERWENT; USOCR	
56	75	(257/\$.ccls. and (BGA or (ball adj grid adj array))) and	USPAT:	2004/06/12 19:22
		(layout same balls)	EPO; JPO;	
	İ		DERWENT;	
			USOCR	